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Alpine Botany, 2026; <https://doi.org/10.1007/s00035-026-00351-9>

Sap flow characteristics and canopy transpiration of *Alnus alnobetula* within the treeline ecotone of the Central Tyrolean Alps

Gerhard Wieser¹ · Walter Oberhuber¹ · Andreas Gruber¹

Ecology and Evolution, 2025; <https://doi.org/10.1002/ece3.72198>

Decoupling of Radial Growth Phenology From Temperature Constraints in the Clonal Shrub *Alnus alnobetula* at the Alpine Treeline

Walter Oberhuber | Gerhard Wieser | Andreas Gruber

FWF

Acknowledgements

These studies were supported in whole by the Austrian Science Fund (FWF) Grant <https://doi.org/10.55776/P34706>



forests 2024; <https://doi.org/10.3390/f15010024>



Article

Impact of Environmental Conditions on Wood Anatomical Traits of Green Alder (*Alnus alnobetula*) at the Alpine Treeline

Andreas Gruber , Gerhard Wieser , Marion Fink and Walter Oberhuber ^{*}



plants 2023; <https://doi.org/10.3390/plants12081708>



Article

Climate Overrides the Influence of Microsite Conditions on Radial Growth of the Tall Multi-Stemmed Shrub *Alnus alnobetula* at Treeline

Walter Oberhuber ^{*}, Anna-Lena Dobler, Tamara Heinzle, Francesca Scandurra, Andreas Gruber and Gerhard Wieser



forests 2022; <https://doi.org/10.3390/f13030440>



Article

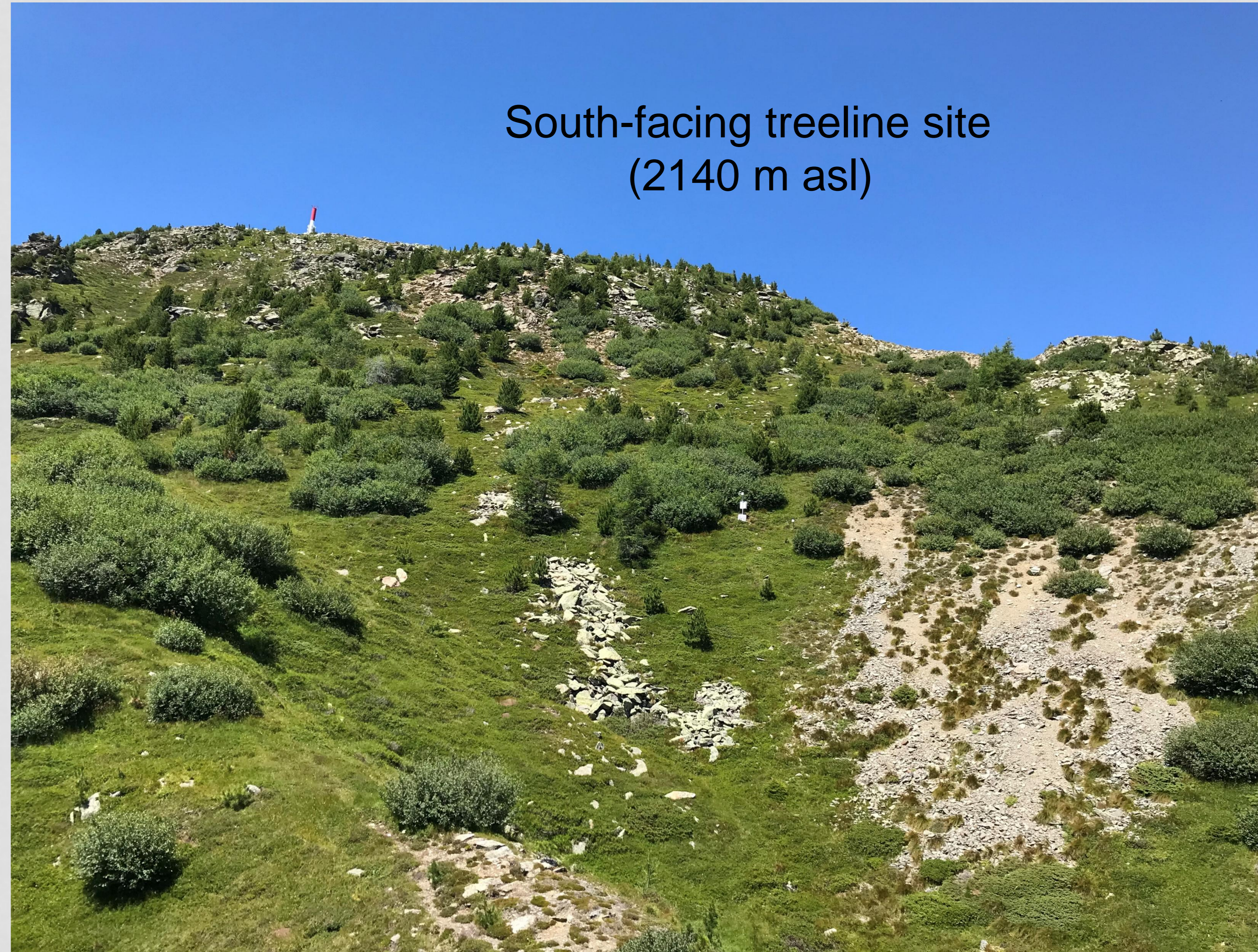
Radial Stem Growth of the Clonal Shrub *Alnus alnobetula* at Treeline Is Constrained by Summer Temperature and Winter Desiccation and Differs in Carbon Allocation Strategy Compared to Co-Occurring *Pinus cembra*

Walter Oberhuber ^{*}, Gerhard Wieser , Fabio Bernich and Andreas Gruber

Mt. Patscherkofel (Tyrol, Central European Alps)
(2246 m asl)



South-facing treeline site
(2140 m asl)



Valley site (Botanical Garden, Innsbruck, Austria)
(600 m asl)



North-facing treeline site
(2150 m asl)



Point dendrometer mounted
on the stem of *Alnus alnobetula*
(ZN12-O-WP, Natkon.ch, Switzerland)